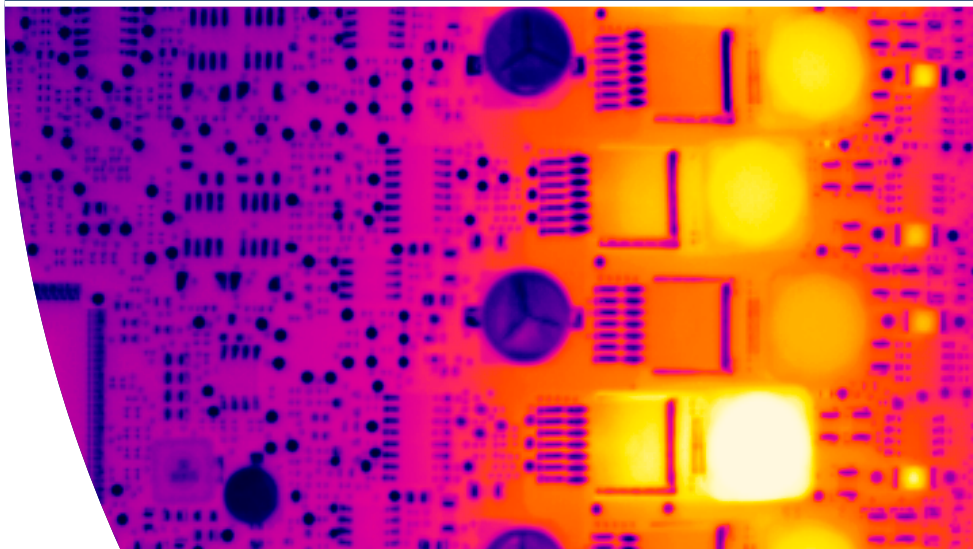




PI 640

The smallest measuring
VGA infrared camera worldwide

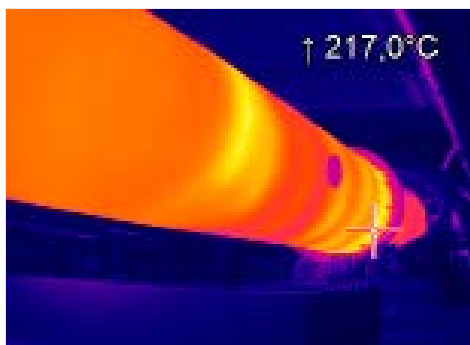
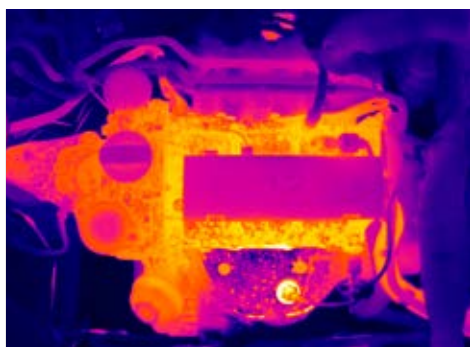
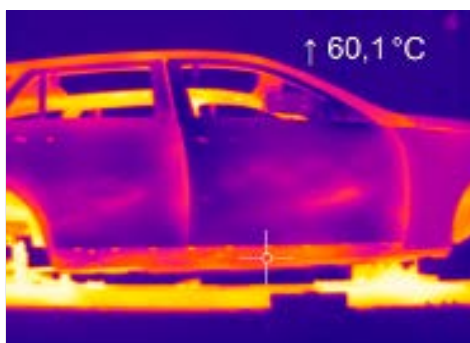
innovative infrared technology



Thermography in VGA resolution

Features:

- 640 x 480 pixel
- Radiometric video recording with 32 Hz
- Licence-free analysis software and complete SDK inclusive



Type	PI 640
Optical resolution	640 x 480 pixel
Detector	FPA, uncooled (17 µm x 17 µm)
Spectral range	7.5 – 13 µm
Temperature ranges	–20 ... 100 °C, 0 ... 250 °C, 150 ... 900 °C
Frame rate	32 Hz / 125 Hz @ 640 x 120 pixels
Optics (FOV)	15° x 11° FOV / f=41.5 mm or 33° x 25° FOV / f = 18.7 mm or 60° x 45° FOV / f = 10.5 mm or 90° x 66° FOV / f = 7.7 mm
Thermal sensitivity (NETD)	75 mK
Accuracy	±2 °C or ±2 %, whichever is greater
PC interface	USB 2.0
Process interface (PIF), standard	0–10 V input, digital input (max. 24 V), 0–10 V output
Process interface (PIF), industrial	2x 0–10 V input, digital input (max. 24 V), 3x 0–10 V output, 3x relay (0–30 V/ 400 mA), fail-safe relay
Cable length (USB)	1 m (standard), 5 m, 10 m 5 m and 10 m also as HT cable (180 °C)
Ambient temperature	0 ... 50 °C
Storage temperature	–40 ... 70 °C
Relative humidity	20–80 %, non-condensing
Enclosure (size / rating)	46 mm x 56 mm x 90 mm / IP 67 (NEMA 4)
Weight	320 g, incl. lens
Shock ¹⁾	IEC 60068-2-27 (25 g and 50 g)
Vibration ¹⁾	• IEC 60068-2-6 (sinus-shaped) • IEC 60068-2-64 (broadband noise)
Tripod mount	¼-20 UNC
Power supply	USB powered
Scope of supply	• USB camera with 1 lens • USB cable (1 m) • Table tripod • Standard PIF with cable (1 m) and terminal block • Software package optris® PI Connect • Hard transport case
¹⁾ for more details see operator's manual	